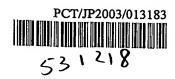
Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference YS03001PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No. PCT/JP2003/013183	International filing date (day/month/year) 15 October 2003 (15.10.2003)	Priority date (day/month/year) 29 October 2002 (29.10.2002)			
International Patent Classification (IPC) or n C04B 38/10, 28/14, E04C 2/04					
Applicant	YOSHINO GYPSUM CO., LTD.				
This report is the international prelim Authority under Article 35 and trans	ninary examination report, established by the mitted to the applicant according to Article	is International Preliminary Examining 36.			
3. This report is also accompanied by A					
sheets of the descr	aining rectifications authorized by this Auth	sheets, as follows: been amended and are the basis of this report nority (see Rule 70.16 and Section 607 of the			
sheets which supe beyond the disclos Supplemental Box	sure in the international application as filed	ty considers contain an amendment that goes, as indicated in item 4 of Box No. I and the			
	, containing a sequence listi	ype and number of electronic carrier(s)) ng and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the			
4. This report contains indications relat					
Box No. I Basis of the rep	port				
Box No. II Priority Box No. III Non-establishm					
	nent of opinion with regard to novelty, inver	ntive step and industrial applicability			
Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
9cx No. VI Certain docume					
Dux No. VII Certain defects	E. Bux No. VII Certain defects in the international application				
Box No. VIII Certain observa	tions on the international application				
Date of submission of the demand	Date of completion	Date of completion of this report			
15 March 2004 (15.03.2	004) 27 (October 2004 (27.10.2004)			
Name and mailing address of the IPEA/JP	Authorized officer				
Facsimile No.	Telephone No.				



Box No). I	Basis of the report	
1. With other	regard	ard to the language, this report is based on the international application in the language in which it was filed, unle indicated under this item.	ess
	This which	his report is based on translations from the original language into the following language	,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
jurni	snea to are not	and to the elements of the international application, this report is based on (replacement sheets which have to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally of annexed to this report):	ve been ly filed"
		e international application as originally filed/furnished	
لا		description:	
	pages	, as originarly med	furnished/
	pages		
		claims:	
	pages		
	pages	, as originally filed/	
	pages	, as amended (together with any statement) under	
	pages		
	the dr	drawings:	
	pages	-	firmished
	pages		- Landing
	pages	received by this Authority on	
	a sequ	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.	The a	amendments have resulted in the cancellation of:	
		the description, pages	
	Ħ	the claims, Nos.	
	=	the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4.	made,	report has been established as if (some of) the amendments annexed to this report and listed below had not be, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental	been Box
	(Kule	e 70.2(e)).	
		the description, pages	
		the drawings sheets/5 as	
•	H.	the drawings, sheets/figs	
		the sequence listing (specify):	•
	<u>.</u>	any table(s) related to sequence listing (specify):	į
* If item	ı 4 app	plies, some or all of those sheets may be marked "superseded."	

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-6	YES
	Claims		NO
Inventive step (IS)	Claims	1-6	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-6	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 54-1324 A (Sumitomo Metal Mining Co.,

Ltd.), 08 January 1979

Document 2: JP 10-330174 A (Yoshino Gypsum Co., Ltd.),

15 December 1998

Document 3: JP 6-24869 A (Sekisui House, Ltd.), 01

February 1994

Document 4: JP 7-69700 A (Hiromitsu SHIGEKURA), 14 March

1995

Document 5: JP 6-48862 A (Mitsubishi Materials Corp.),

22 February 1994

Claim 1

Document 2 (claims and paragraphs [0013] to [0017]) cited in the international search report discloses the feature of producing a gypsum board from a slurry that comprises calcinated plaster, water, a foaming agent and a foam stabilizer; however, document 1 does not disclose or suggest a "step wherein the aforementioned foaming agent, which generates a foam that has a predetermined size distribution, is obtained by adding a void-size adjusting agent, which adjusts the size distribution of the foam that is dispersed in the aforementioned foamed gypsum slurry, to a mixture that comprises water and the starting solution for the aforementioned foaming agent in advance,"

which is set forth in claim 1. In other words, document 1 does not disclose or suggest the feature of generating foam within a mixture that comprises a foaming agent and a void-size adjusting agent and then adding the generated foam to a gypsum slurry, instead of directly adding a foaming agent and a foam stabilizer to a gypsum slurry.

In addition, document 1 (page 3, upper right column, line 8 to page 4, upper right column, line 13) cited in the international search report discloses aluminum sulfate, document 3 (paragraph [0011]) cited in the international search report discloses sodium sulfosuccinate, document 4 (claim 4) cited in the international search report discloses ester salts of alkyl sulfosuccinate, and document 5 (paragraph [0011]) cited in the international search report discloses aluminum sulfate; however, these compounds are not void-size adjusting agents. Therefore, documents 2 and 3 to 5 do not disclose or suggest a "step wherein the aforementioned foaming agent, which generates a foam that has a predetermined size distribution, is obtained by adding a void-size adjusting agent, which adjusts the size distribution of the foam that is dispersed in the aforementioned foamed gypsum slurry, to a mixture that comprises water and the starting solution for the aforementioned foaming agent in advance."

As a result, it would be impossible to derive the abovementioned feature by combining the inventions that are disclosed in documents 1 to 5; therefore, the invention that is set forth in claim 1 is novel and involves an inventive step.

Claims 2 to 6

The inventions that are set forth in claims 2 to 6 are inventions which cite the invention that is set forth in claim 1; therefore, the inventions that are set forth

in claims 2 to 6 are novel and involve an inventive step in the light of the novelty and inventive step of the invention that is set forth in claim 1.